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L3: Entry 1 of 33

File: USPT

Aug 9, 2005

US-PAT-NO: 6928393

DOCUMENT-IDENTIFIER: US 6928393 B2

TITLE: Method and system for supporting negative testing in combinatorial test case
generators

DATE-ISSUED: August 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Czerwotka; Jacek A.	Redmond	WA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Microsoft Corporation	Redmond	WA			02

APPL-NO: 10/ 464986 [PALM]

DATE FILED: June 18, 2003

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702/108, 717/124, 717/126-128, 717/131, 717/132, 717/135, 714/38, 714/47, 714/48,
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<input type="checkbox"/> <u>6321376</u>	November 2001	Willis et al.	717/124

ART-UNIT: 2857

PRIMARY-EXAMINER: Wachsmann; Hal

ATTY-AGENT-FIRM: Law Offices of Albert S. Michalik, PLLC

ABSTRACT:

Provided is a system and method for black-box testing of software using positive and negative test cases with N-way combinations of parameter values. An original model comprising valid and invalid values is modified in a first phase, by generating exclusions (constraints) for pairs of invalid values. A first suite of test cases is generated from the modified model, and positive test cases eliminated, creating a first test suite with only negative tests. In a second phase, the original model is modified by eliminating invalid values, from which a second test suite having only positive test cases for all valid N-way combinations is generated. Merging the two test suites provides a suite of positive and negative test cases that test software with N-way combinations of values, in which each negative test case has only one invalid value.

20 Claims, 13 Drawing figures

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